ABSTRACT OF THE DISCLOSURE

A semiconductor substrate f the present invention is a DSP wafer or Semi-DSP wafer (Fig. 2) having a flatness of an SFQR value ≤ 70 (nm) and containing boron at a concentration not lower than 5 × 10¹⁶ (atoms/cm³) nor higher than 2 × 10¹⁷ (atoms/cm³) within 95% or more of rectangular regions of 25 × 8 (mm²) arranged on a front face of the substrate. Specifically, a silicon crystal layer by an epitaxial growth is formed on a front face of a silicon substrate having the above substrate boron concentration.